

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Agua-Fictured Cliffs Formation Pictured Cliffs County San Juan  
Initial I Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 3-18-58  
Company PAN AMERICAN PETROLEUM CORP. Lease Wallace Gas Unit Well No. 2  
Unit 6 Sec. 35 Twp. 11N Rge. 11W Purchaser El Paso Natural Gas Company  
Casing 5 1/8" Wt. 134 I.D. 4.974 Set at 2300 Perf. 2290 To 2315  
Tubing 1.44 Wt. 2.3 I.D. 1-1/4 Set at 2289 Perf. 2278 To 2289  
Gas Pay: From 2290 To 2315 L 2302 xG 0.69 (est) GL \_\_\_\_\_ Bar.Press. 12  
Producing Thru: Casing I Tubing \_\_\_\_\_ Type Well Gas - Single  
Single-Bradenhead-G. G. or G.O. Dual \_\_\_\_\_  
Date of Completion: 1-17-58 Packer No Reservoir Temp. 94° F

## OBSERVED DATA

Tested Through (none) (Choke) (none) Type Taps \_\_\_\_\_

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) <del>(none)</del> Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	<u>3 1/2 in</u>	<u>32 days</u>				<u>735</u>		<u>735</u>		
2.		<u>3/4</u>	<u>85</u>		<u>60 (est)</u>	<u>89</u>	<u>60 (est)</u>	<u>85</u>	<u>60 (est)</u>	<u>3</u>
3.										
4.										
5.										

## FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.365</u>		<u>97</u>	<u>1.000</u>	<u>0.9325</u>		<u>1118</u>
2.							
3.							
4.							
5.							

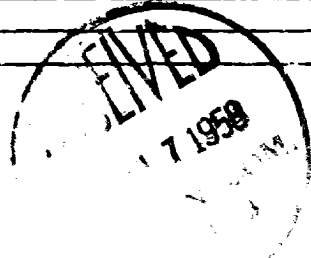
## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>) \_\_\_\_\_  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 787 P<sub>c</sub><sup>2</sup> 228,009

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> /P <sub>c</sub>
1.						<u>10,201</u>	<u>547,008</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 1136 MCFPD; n 0.85  
COMPANY PAN AMERICAN PETROLEUM CORPORATION  
ADDRESS Box 187, Farmington, New Mexico  
AGENT and TITLE A. H. Bauer, Jr., Field Engineer  
WITNESSED \_\_\_\_\_  
COMPANY \_\_\_\_\_

REMARKS



## INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

$Q$  = Actual rate of flow at end of flow period at W. H. working pressure ( $P_w$ ).  
MCF/da. @ 15.025 psia and 60° F.

$P_c$  = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.  
psia

$P_w$  = Static wellhead working pressure as determined at the end of flow period.  
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

$P_t$  = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

$P_f$  = Meter pressure, psia.

$h_w$  = Differential meter pressure, inches water.

$F_g$  = Gravity correction factor.

$F_t$  = Flowing temperature correction factor.

$F_{pv}$  = Supercompressability factor.

$n$  = Slope of back pressure curve.

Note: If  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_t$ .

COMMISSION	
WELL NO.	DATE
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